Listing of Claims:

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- 1. (Currently Amended) An organic crystal observing and working method in which an organic crystal <u>is observed by irradiation with light other than ultraviolet light and</u> is worked by irradiation with <u>ultraviolet</u> short-pulse laser light, wherein both observation and working are performed while maintaining a <u>low-temperature</u> state in which [[the]] <u>a</u> portion of <u>this the</u> organic crystal being worked is cooled to a low temperature.
- 2. (Currently Amended) An organic crystal observing and working method in which an organic crystal <u>is observed by irradiation with light other than ultraviolet light and</u> is worked by irradiation with <u>ultraviolet</u> short-pulse laser light, wherein both observation and working are performed while maintaining a <u>low-temperature</u> state in which the portions of this the organic crystal and a substance holding this the organic crystal that are being worked are cooled to a low temperature.
- 3. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein the state in which the crystal is cooled to a low temperature is 0°C or below.

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- 4. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein the method for maintaining the portion of the organic crystal that is being worked or the portions of the organic crystal and the substance holding this the organic crystal that are being worked are maintained in [[a]] the low-temperature state [[is]] by a method in which a low-temperature gas is caused to jet directly or indirectly onto an area that includes the portion(s) portion or portions where this the low-temperature state is to be maintained.
- 5. (Original) The organic crystal working method according to claim 3, wherein the low-temperature gas is either a nitrogen gas or helium gas.
- 6. (Original) The organic crystal working method according to claim 1 or 2, wherein the organic crystal is at least one crystal selected from a set consisting of organic low molecules, organic supramolecular complexes, resins, proteins, sugars, lipids and nucleic acids.
- 7. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein the form of working is working that is performed from [[the]] a surface of the organic crystal

or [[the]] surfaces of the organic crystal and the substance holding this the organic crystal.

- 8. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein [[the]] <u>a</u> wavelength of the short-pulse laser light is shorter than [[the]] <u>an</u> absorption end on [[the]] a short-wavelength side of the organic crystal.
- 9. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein [[the]] \underline{a} wavelength of the short-pulse laser light is 400 nm or less.
- 10. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein [[the]] <u>a</u> pulse width of the short-pulse laser light is 100 ns or less.
- 11. (Currently Amended) The organic crystal working method according to claim 1 or 2, wherein [[the]] an energy density per pulse of the short-pulse laser light is 1 mJ/cm² or greater.
- 12. (Currently Amended) An organic crystal working apparatus for working organic crystals, wherein this the organic crystal working apparatus has comprising:
 - a short-pulse laser,

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an optical system which conducts [[the]] ultraviolet
short-pulse laser light emitted from this the short-pulse laser
to an organic crystal constituting [[the]] an object of working,
and which irradiates [[the]] a location of this the organic
crystal that is being worked,

a mechanism that varies [[the]] relative positions of the optical system and the organic crystal, and

[[a]] means for cooling the object of working to a low temperature, [[and]]

wherein the apparatus is configured such that the organic crystal is observed by irradiation with light other than ultraviolet light and worked by irradiation with the ultraviolet short-pulse laser light, while the organic crystal is cooled to the low temperature.

13. (Currently Amended) The organic crystal working apparatus according to claim 12, wherein the means for maintaining cooling the object of working in a low-temperature state is a to the low temperature comprises means in which for causing a low-temperature gas is caused to jet onto the organic crystal or a container holding this the organic crystal [[in]] at a position where this the organic crystal is being worked.

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- 14. (Currently Amended) The organic crystal working apparatus according to claim 12, wherein the means for maintaining cooling the object of working in a low-temperature state is to the low temperature comprises a cooling container that accommodates the organic crystal or a container holding this the organic crystal [[in]] at a position where this the organic crystal is being worked.
- 15. (Currently Amended) The organic crystal working apparatus according to claim 12, wherein this the organic crystal working apparatus [[has]] includes an observation device or measuring device for observing or measuring the position location where the short-pulse laser light is irradiated, simultaneously with the organic crystal.
- 16. (Currently Amended) The organic crystal working apparatus according to claim 15, wherein the observation device or measuring device is an optical observation device or optical measuring device using visible light, this the observation device or measuring device is in a mechanically fixed relationship with the optical system, [[the]] a reference point of the observation device or measuring device coincides with the position location where the short-pulse laser light is irradiated, and the apparatus has [[the]] a function of indirectly observing or

- measuring this the short-pulse laser light irradiation position location by observing or measuring [[the]] a position of the reference point of the observation device or measuring device.
 - 17. (Currently Amended) An organic crystal observation device, wherein comprising the organic crystal working apparatus according to claim 12 is incorporated.
 - 18. (Original) The organic crystal observation device according to claim 17, wherein the observation device is an X-ray crystal structure analysis device.